

200311559-1

10/685,842

IN THE CLAIMS:

The status and content of each claim follows;

1. (previously presented) A method for dispensing a single ligament of fluid with an inkjet dispenser comprising:
ejecting a first quantity of said fluid from said inkjet dispenser toward a substrate; and
ejecting subsequent quantities of said fluid from said inkjet dispenser toward said substrate;
wherein said subsequent quantities of fluid are ejected from said inkjet dispenser such that said first quantity of said fluid and said subsequent quantities of said fluid form a single, continuous ligament of said fluid between said inkjet dispenser and said substrate.
2. (previously presented) The method of claim 1, further comprising reducing a necking phenomena of said fluid.
3. (previously presented) The method of claim 2, wherein said reducing a necking phenomena comprises increasing a viscosity of said fluid.
4. (previously presented) The method of claim 2, wherein said reducing a necking phenomena comprises decreasing a surface tension of said fluid.
5. (previously presented) The method of claim 1, wherein said inkjet dispenser is disposed in an inkjet printer configured to form two-dimensional characters.

200311559-1

10/685,842

6. (original) The method of claim 5, wherein said fluid comprises ink.
7. (original) The method of claim 1, wherein said inkjet dispenser is disposed in a solid freeform fabrication apparatus.
8. (original) The method of claim 7, wherein said fluid comprises an object build material.
9. (original) The method of claim 7, wherein said fluid comprises an object support material.
10. (original) The method of claim 1, wherein said inkjet dispenser is disposed in a circuit formation apparatus.
11. (original) The method of claim 10, wherein said fluid comprises one of a conductive circuit build material, a semi-conductive build material, or a dielectric build material.
12. (original) The method of claim 10, wherein said single ligament of fluid contacts said substrate to form a circuit component.
13. (original) The method of claim 12, wherein said circuit component comprises one of a transistor, a trace, a capacitor, a resistor, an antenna, a display, or a radiofrequency identification tag.

200311559-1

10/685,842

14. (previously presented) The method of claim 1, wherein said fluid comprises an adhesive or binder.

15. (previously presented) A method for dispensing a single ligament of fluid from a thermal inkjet dispenser comprising:

ejecting a first quantity of said fluid having a head and a tail from said thermal inkjet dispenser toward a substrate; and

ejecting subsequent quantities of said fluid having at least a head from said thermal inkjet dispenser toward said substrate;

wherein said subsequent quantities of fluid are ejected from said thermal inkjet dispenser such that said head of each of said subsequent quantities of fluid catches said tail of a preceding quantity of fluid thereby forming a single, continuous ligament of said fluid between said dispenser and said substrate.

16. (original) The method of claim 15, further comprising choosing said fluid to have a viscosity above 2 centipoise at an operating temperature of said inkjet dispenser.

17. (original) The method of claim 15, further comprising choosing said fluid to have a surface tension below 30 dyne/centimeter.

18-68. (cancelled)

200311559-1

10/685,842

69. (previously presented) A method for dispensing a single ligament of fluid with an inkjet dispenser comprising:

ejecting a first quantity of said fluid from said inkjet dispenser toward a substrate;
refilling a firing chamber of said dispenser with a second quantity of fluid less than said first quantity; and

ejecting said second quantity of said fluid from said inkjet dispenser toward said substrate;

wherein said second quantity of fluid is ejected from said inkjet dispenser such that said first quantity of said fluid and said second quantity of said fluid join to form a single ligament of said fluid prior to contacting said substrate.

70. (previously presented) The method of claim 69, wherein said refilling a firing chamber with a second quantity of fluid less than said first quantity is performed by increasing backpressure in said firing chamber.

71. (withdrawn) The method of claim 69, wherein said refilling a firing chamber with a second quantity of fluid less than said first quantity is performed by increasing a viscosity of said fluid.

72. (withdrawn) The method of claim 69, wherein said refilling a firing chamber with a second quantity of fluid less than said first quantity is performed by decreasing impedance of an orifice of said firing chamber.

200311559-1

10/685,842

73. (withdrawn) The method of claim 69, wherein said refilling a firing chamber with a second quantity of fluid less than said first quantity is performed by increasing impedance of an inlet of said firing chamber.